

Table 1. Core Locations in the Subarctic NW-Pacific, Sea of Okhotsk and Western Bering Sea as Well as the Performed Proxy Studies

Sediment Core (mbsl)	Latitude (degreeN)	Longitude (degreeE)	Depth
Study Area	Performed Proxy Studies <sup>a</sup>		
LV29-114-3 IP25, CaCO <sub>3</sub> , CL, 14C	49degree22.54'	152degree53.23' 1765	Sea of Okhotsk U37K',
SO201-2-12KL IP25, Opal, DS, CL, 14C	53degree59.47'	162degree22.51' 2145	NW-Pacific U37K',
SO201-2-77KL Sea U37K', IP25, CL, 14C	56degree19.83'	170degree41.98' 2135	western Bering
SO201-2-85KL Sea U37K', IP25, CL, 14C	57degree30.30'	170degree24.77' 968	western Bering
SO201-2-101KL Sea U37K', IP25, CL, 14C	58degree52.52'	170degree41.45' 630	western Bering
SO201-2-114KL Sea U37K', IP25, CL, 14C	59degree13.87'	166degree59.32' 1376	western Bering

<sup>a</sup>U37K': alkenone paleothermometry; IP25: sea-ice diatoms biomarker; Opal: wt.% biogenic opal; CaCO<sub>3</sub>: wt.% CaCO<sub>3</sub>; CL: Core logging; 14C: AMS 14C datings; DS: Diatom studies.

Table 2. AMS 14C Ages of the Sediment Records With Calibrated Calendar Age +/-1Sigma (Years) and Applied Reservoir Age Correction Used in This Study

Laboratory Number	Sediment Core	Core Depth (cm)	Radiocarbon Age (years)	Calendar Age +/-1Sigma (years)	Reservoir Age (years)
Transferred age	LV29-114-3	108	5850 +/- 60a	5607-5730	900
OS-88042		162	8320 +/- 40	8236-8310	900
KIA30864		197	9630 +/- 50	9764-10067	900
KIA30863		232	10465 +/- 50	10808-11080	900
KIA30867		272	12290 +/- 55	13164-13308	900
KIA30865		292	13180 +/- 60	13960-14457	900
KIA30868		317	14400 +/- 80	16538-16827	900
KIA30866		352	15130 +/- 80	17117-17497	900
OS-85655	SO201-2-12KL	210	9390 +/- 40	9484-9527	900
KIA44680		295	10570 +/- 50	11080-11191	900
OS-87895		340	10800 +/- 65	11231-11368	900
OS-92047		508	12500 +/- 50	13340-13498	900
OS-87891		550	12900 +/- 50	13782-13918	900
OS-87902		610	13350 +/- 65	14219-14752	900
OS-92150		695	13900 +/- 55	15227-15872	900
KIA44682		820	16160 +/- 80	18491-18666	900
KIA44683		875	17090 +/- 90	19254-19457	900
OS-85671	SO201-2-77KL	105	9570 +/- 45b	10051-10152	700
OS-85658		115	10450 +/- 40c	11174-11222	700
OS-90700		155	11500 +/- 50	12608-12727	700
OS-85657		167-170	12750 +/- 50	13823-13967	700
OS-85664		180	13200 +/- 45	14501-14945	700
OS-85665	SO201-2-85KL	26	9950 +/- 40b	10378-10507	700
KIA42231		45	10315 +/- 65c	10791-10966	700
OS-85669		60	11950 +/- 45	13104-13217	700
KIA42232		70	12620 +/- 90	13665-13887	700
OS-87896		95	13850 +/- 55	15803-15822	700
OS-87890		135	17350 +/- 65	19575-19895	700
KIA42233		155	20720 +/- 160	23706-24194	700

OS-87887	SO201-2-101KL	10	12600 +/- 55	13686-13838	700
OS-88041	90	14950 +/- 60	17165-17506	700	
KIA42229	110	17310 +/- 120	19541-19919	700	
Transferred age	140	20720 +/- 160d	23706-24194	700	
KIA42230	190	22510 +/- 190	25876-26351	700	
KIA42506	260	29270 +/- 440	32121-33539	700	
KIA42235	SO201-2-114KL	39	10200 +/- 70	10600-10805	700
KIA42236	76-78	10645 +/- 50	11249-11404	700	
KIA42237	114	12160 +/- 80	13249-13403	700	
KIA42238	153	13410 +/- 100	14727-15237	700	

aThe 14C age transferred from sediment core V34-98 [Gorbarenko et al., 2002].

bThe 14C ages used to define the carbonate spike 1.

cThe 14C ages used to define the carbonate spike 2.

dThe 14C age transferred from sediment core SO201-2-85KL.